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AGRICULTURAL RESEARCH ADMINISTRATION  
BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

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U. S. DEPARTMENT OF AGRICULTURE

INSECT PEST SURVEY

Special Supplement

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HESSIAN FLY SURVEY AT HARVESTTIME 1944

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Field surveys made by the Bureau of Entomology and Plant Quarantine at Sacramento, Calif.; Manhattan, Kans.; Lafayette, Ind.; and Beltsville, Md., and by State agricultural agencies of Nebraska, Oklahoma, Iowa, Missouri, Illinois, Ohio, New York, and Pennsylvania indicate that hessian fly infestations are low throughout the winter Wheat Belt with exceptions of moderate to heavy infestations in southern Nebraska and in north-central and northeastern Kansas. In the spring Wheat Belt, infestations of the hessian fly were recorded with a moderate amount of damage occurring from Madison, Wis., and the southwestern part of North Dakota. While not included in the regular survey program, severe damage was reported at Hettinger in Adams County, in Golden Valley County, and at Dickinson in Stark County, N. Dak., by the Department of Entomology, North Dakota Agricultural College.

In general, however, the surveys show that there are spotted menacing populations of hessian flies in local fields throughout the winter Wheat Belt. Observance of the safe-seeding dates is recommended generally with possible modifications of controls to be determined by local or State authorities.

The data summarized in the following table, and the accompanying map, indicate more fully the regions covered by the survey and the general trend of fly infestations. A field sample in the survey usually consisted of 50 wheat stems.

Hessian fly survey at harvesttime 1944

Area	Fields	Stems infested		
	sampld	Average	Maximum	Minimum
	Number	Percent	Percent	Percent
California.....	61	1.9	56	0
Colorado:				
Northeastern.....	13	10.7	58	0
Nebraska: <u>1</u> /				
Northwestern.....	4	1.5	4	0
Southwestern.....	6	25.0	72	4
South-central.....	7	10.5	34	2
Northeastern.....	4	1.6	4	0
Southeastern.....	76	13.5	56	2
Kansas:				
Northwestern.....	29	4.5	22	0
North-central.....	122	14.6	94	0
South-central.....	75	6.2	42	0
Northeastern.....	71	8.0	42	0
Southeastern.....	54	2.8	20	0
Oklahoma: <u>1</u> /				
Northern.....	82	2.6	34	0
Iowa <u>1</u> /.....	40	3.1	20	0
Missouri <u>1</u> /.....	389	2.0	44	0
Arkansas:				
Northwestern.....	17	0.6	6	0
Illinois <u>1</u> /.....	177	1.7	28	0
Michigan:				
Southern.....	77	3.0	20	0
Indiana.....	467	2.9	54	0
Ohio <u>1</u> /.....	296	3.0	14	0

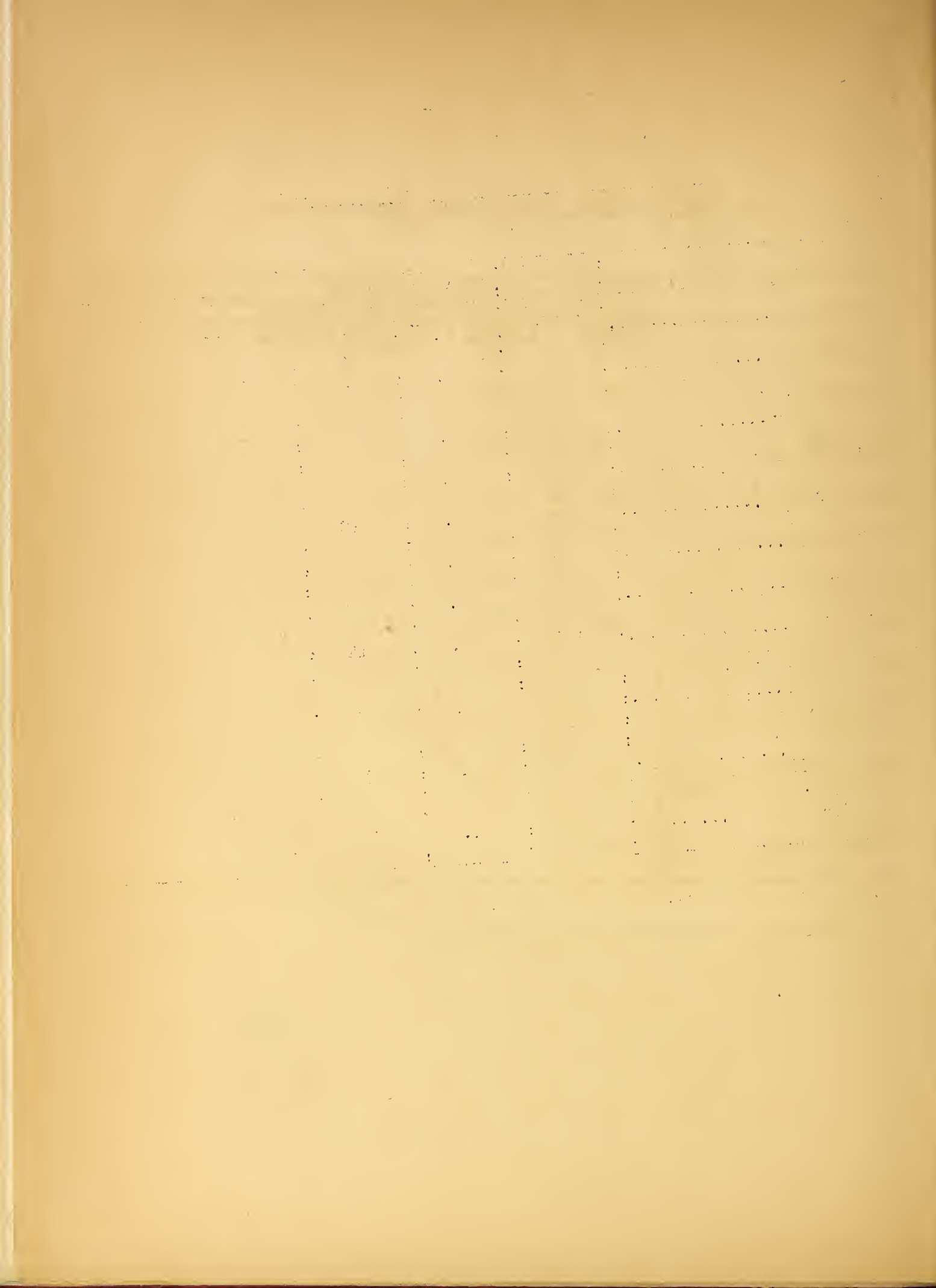
See footnote at end of table.

Hessian fly survey at harvesttime 1944--Continued

Area	Fields	Stems infested		
	sampled	Average	Maximum	Minimum
	Number	Percent	Percent	Percent
Kentucky.....	60	1.7	16	0
Tennessee.....	125	0.8	14	0
New York: <u>1</u> /				
Western.....	81	1.0	30	0
Pennsylvania <u>1</u> /.....	142	1.0	16	0
New Jersey.....	25	3.0	18	0
Delaware.....	9	1.0	4	0
Maryland.....	63	1.0	18	0
Virginia.....	136	1.0	14	0
North Carolina:				
Central.....	94	1.0	6	0
South Carolina:				
Western.....	37	3.0	36	0
Georgia:				
Northeastern.....	32	4.0	18	0

1/ In cooperation with State entomologists.





# HESSIAN FLY SURVEY AT HARVESTTIME 1944

NUMBERS INDICATE PERCENTAGE OF STEMS  
INFESTED.  
CROSS-HATCHING INDICATES FROM  
MODERATE TO HEAVY INFESTATION.

